# SAF-RC-087 618-7 Burial Ground - Soil FINAL DATA PACKAGE

## COMPLETE COPY OF DATA PACKAGE TO:

Rick Kerkow

L6-06

KW 6/2/08

Initials/Date

Kathy Wendt

H4-21

KW 6/2/08 Initials/Date

#### **COMMENTS:**

**SDG J00172** 

SAF-RC-087

Rad only

X Chem only

Rad & Chem

X Complete

Partial

**WASTE SITE: 618-7 Burial Ground/Anomalous materials** 



**EDMC** 

## Analytical Data Package Prepared For

## Washington Closure Hanford

Analysis Provided By

TestAmerica Richland
2800 George Washington Way
Richland WA, 99354
(509)375-3131
Assigned Laboratory Code: TALR



SDG Number: J00172



#### Certificate of Analysis

Washington Closure Hanford 2620 Fermi Avenue Richland, WA 99354

May 30, 2008

Attention: Joan Kessner

SAF Number : RC-087
Date SDG Closed : May 22, 2008
Number of Samples : Fifteen (15)

Sample Type : Soil
SDG Number : J00172

Data Deliverable : Quick Turn Metals / Summary

#### **CASE NARRATIVE**

#### I. Introduction

On May 22, 2008 TestAmerica received a request to prepare three sets of lead standards. A number of samples received prior to May 22, 2008 were combined into three separate composites. The composites were prepared as follows:

High Level Standard (sample ID J16W83) includes: J16MC0, J16MB9, J16DB6 & J16J62

Medium Level Standard (sample ID J16W84) includes: J16MD4, J16MC6, J16DL5, J16J65, J16MC7 & J16MC2

Low Level Standard (sample ID J16W85) includes: J16DC0, J16MC9, J16MC8, J16J63, J16DL3 & J16DX2

The composites were dried, ball milled overnight and sieved to remove any material greater than 2mm in size.

Five samples from each concentration were analyzed for lead by ICP.

The samples were assigned the following laboratory ID numbers;

WCH ID#	STLR ID#	<b>MATRIX</b>	DATE OF RECEIPT
J16W83-A	KNP0T-A	SOIL	5/22/08
J16W83 -B	KNP0T-B	SOIL	5/22/08
J16W83 -C	KNP0T-C	SOIL	5/22/08
J16W83 -D	KNP0T-D	SOIL	5/22/08
J16W83 -E	KNP0T-E	SOIL	5/22/08
J16W84-A	KNP00-A	SOIL	5/22/08

## Washington Closure Hanford May 30, 2008

 J16W84-B	KNP00-B	SOIL	5/22/08	
J16W84-C	KNP00-C	SOIL	5/22/08	
J16W84-D	KNP00-D	SOIL	5/22/08	
J16W84-E	KNP00-E	SOIL	5/22/08	
J16W85-A	KNP03-A	SOIL	5/22/08	
J16W85-B	KNP03-B	SOIL	5/22/08	
J16W85-C	KNP03-C	SOIL	5/22/08	
J16W85-D	KNP03-D	SOIL	5/22/08	
J16W85-E	KNP03-E	SOIL	5/22/08	

#### II. Sample Receipt

The samples were received in good condition and no anomalies were noted during check-in.

#### III. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information, analytical results and the appropriate associated statistical errors. The requested analyses were:

#### **ICP Metals**

ICP Metals by method SW-846 601

#### IV. Quality Control

SDG J00172 includes a Laboratory Control Samples (LCS) and one method (reagent) blank. A duplicate sample, matrix spike sample and a matrix spike duplicate sample was also analyzed. Any exceptions have been noted in the "Comments" section.

Blanks and LCS are reported in mg/L units, other QC and sample results are reported in the same units.

#### V. Comments

#### **ICP Metals**

#### Batch 8114551:

The matrix spike recovered low at 51% and the matrix spike duplicate recovered higher at 121%. The amount of spike added to the MS and MSD was insignificant in comparison with the amount of analyte in the sample. Except as noted, the LCS, batch blank, sample, sample duplicate, ICB, ICV, CCB and CCV results are within contractual limits.

# Washington Closure Hanford May 30, 2008

I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager, or a designee as verified by the following signature.

Reviewed and approved:

Sandra Seger
Project Manager

SDG Number: J00172 SAF Number: RC-087 Batch Number: RC-087 Batch Number: RC-087 Batch Number: 8148344  Sample Number Client ID Aliquant Sample Number Client ID Saa Saa J8E280000-179-C 1.000 LCS Recovery % 106W83-A 0.5009 KNPOT-C 116W83-B 0.5009 KNPOT-C 116W83-B 0.5009 KNPOO-C 116W84-B 0.5048 KNPOO-C 116W84-B 0.5048 KNPOO-C 116W84-B 0.5024 KNPO3-C 116W85-B 0.5007 KNPO3-B 116W85-B 0.5007 KNPO3-B 116W85-B 0.5006 KNPO3-C 116W85-B 0.5007 KNPO3-C 116W85-B 0.5007 KNPO3-C 116W85-B 0.5007 KNPO3-C 116W85-B 0.5006 KNPO3-C 116W85-B 0.5007 KNPOT-D 116W85-B 0.5007 KNPOT-D 116W85-B 0.5007 KNPOT-D 116W85-B 0.5007 KNPOT-D 116W85-B 0.5008	-	Lead	mg/sa	0.0036	0.9649	96.490%	mg/kg	2078.704	2019.365	2035.573	2230 83	915.1181	912.8368	930.1916	882.9808	847.3756	670.1113	578.8217	626.5468	670.9948	641.3022		2129.335	50.631	2199.806	121.102	
<del>4</del> <del>0</del> <del>1</del>	Albusone	Aliquant	sa	1.000	1.000		б	0.54	0.5009	0.5313	0.5546	0.5166	0.5048	0.5114	0.52	0.5163	0.5032	0.5024	0.5172	0.5006	0.5007		0.5335		0.5155		
SDG Number: J00172 SAF Number: RC-087 Batch Number: 8148344 Sample Number J8E280000-179-B J8E280000-179-C LCS Recovery % KNP0T-C KNP0T-C KNP0T-D KNP00-B KNP00-B KNP00-B KNP00-C KNP0-C KNP00-C KNP00-								J16W83-A	J16W83 -B	JI6W83 -C	J16W83-E	J16W84-A	J16W84-B	J16W84-C	J16W84-D	J16W84-E	J16W85-A	J16W85-B	J16W85-C	J16W85-D	J16W85-E						
	SDG Number: J00172 SAF Number: RC-087 Batch Number: 8148344	Sample Number		J8E280000-179-B	J8E280000-179-C	LCS Recovery %		 KNPOT-A	KNP01-B	KNP01-C	KNP0T-E	KNP00-A	KNP00-B	KNP00-C	KNP00-D	KNP00-E	KNP03-A	KNP03-B	KNP03-C	KNP03-D	KNP03-E	O FOOIST	S-104NA	% Recovery	G-IO-M	% Recovery	

Washington Closure Hanford	ure Hanford	CI	CHAIN OF CUST	rody/S	AMPLEA	NALYSIS	OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-087-175	Page 1	of 1
Collector Lab Generated Composites		Compa Joan		Telephone No. 509-375-4688	e No. 5-4688		Project Coordinator KESSNER, JH	Price Code	Data Turnaround	naround
Project Designation 618-7 Burial Ground - Soil		Sampli 618-	Sampling Location 618-7 Burial Ground/anomalous materials	lous materials			SAF No. RC-087		24 Hours	ours
Ice Chest No. NA		Field I	Field Logbook No. NA		COA		Method of Shipment			
Shipped To TestAmerica Incorporated, Richland	, Richland	Offsite NA	Offsite Property No. NA				Bill of Lading/Air Bill No.	l No.		
POSSIBLE SAMPLE HAZARDS/REMARKS Potential Radiological and Beryllium contamination	ZARDS/REMARKS Beryllium contamination		Preservation	Note						
Special Handling and/or Storage	Storage		Type of Container	Zip bag						
None			No. of Container(s)	5						
			AmnjoA	30gm						
	SAMPLE ANALYSIS	r.v.sis		Metals by ICP - 6010 - Quick Tun (Lead)						
Sample No.	Matrix *	Sample Date	Sample Time		1				· · · · · · · · · · · · · · · · · · ·	
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J16W85 ( JOUE)	SOIL	KNP03								
CUAIN OF DOCUME										
CHAIN OF PUSSESSION		Sign/Print Name	sau		SPECIA	L INSTRUCTI	ONS			Matrix *
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Relinquished By/Removed From	Date/Time	Received By/Stored In		Date/Time		C 187	505.00 J			SOrSolid Si-Shalge W = Water
Relinquished By/Removed From	Date/Time	Received By/Stored In		Date/Time	T	J 60172	77			O=Oil A=Air DS=Drum Sulids
Relinquished By/Removed From	Date/Time	Received By/Stored In		Date/Time		Due 5/30/08	130/08			DASIMEN LANGE Talliane WisWipe
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Relinquished By/Removed Fram	Date/Time	Received By/Stored In		Date/Time					: '	
LABORATORY Received By SECTION	1 By			Title	<b>a</b>				Date/Time	
FINAL SAMPLE Disposa DISPOSITION	Disposal Method					Disposed By			Date/Time	
WCH-EE-011										

#### XRF LEAD FIELD STANDARDS

Three sets of standards should be prepared, low, medium, and high. We will provide the lab with a number of "containers" to fill and return.

- Prepare a high level sample by combing remaining material from samples J16MC0, J16MB9, J16DB6, and J16J62.
- Prepare a medium level sample by combing remaining material from samples J16MD4, J16MC6, J16DL5, J16J65, J16MC7, & J16MC2.
- Prepare a low level sample by combing remaining material from samples J16DC0, J16MC9, J16MC8, J16J63, J16DL3, & J16DX2.
- Mix thoroughly. If possible run on the "can roller" over night.
- Remove materials > 2mm in size.
- Analyze high, medium, and low level concentrations in quintuplicate (5 times) for total lead.
- Fill and return 5 samples each of the three concentration levels. Actual containers are still TBD but will be defined shortly.

### Seger, Sandra

From:

Kessner, Joan H [jhkessne@wch-rcc.com]

Sent:

Thursday, May 22, 2008 10:17 AM

To:

Seger, Sandra

Subject:

FW: 618-7 Lead Totals Samples for XRF Confirmation

Attachments: XRF PB FLD STDS.doc

#### Sandra--

Rich has put together some directions on the making of the XRF lead standards. Please give me a call if you have any questions.

Thanks, Joan

5/28/2008 TESTAMERICA